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EG&G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

January 19, 1994

93-RF-00855

S. R. Grace
Environmental Restoration Division
DOE, RFO

Attn: M. J. Harris

TRANSMITTAL OF QUARTERLY MEETING NOTES WITH THE COLORADO DEPARTMENT OF
HEALTH AND THE ENVIRONMENTAL PROTECTION AGENCY - GMA-004-94

Attached is a summary of meeting notes taken during the January 10, 1994 Quarterly
Meeting for the Sitewide Treatability Studies Program. This meeting was attended by
representatives from the Department of Energy/Rocky Flats Office, the Colorado
Department of Health, the Environmental Protection Agency, and EG&G Rocky Flats, Inc.

Questions and comments can be directed to W. J. Roushey of Environmental Engineering &
Technology at extension 6951 or digital page 1711.

Gary H. Anderson

G. M. Anderson, Acting Manager
Environmental Engineering & Technology

GMA:cet

Orig. and 1 cc - S. R. Grace

Attachment:
As Stated

DIST.	LTR	ENC
AGUIAR, M.E.		
BENEDETTI, R.L.		
BENJAMIN, A.		
BERMAN, H.S.		
BRANCH, D.B.		
CARNIVAL, G.J.		
COPP, R.D.		
DAVIS, J.G.		
FERRERA, D.W.		
HANNI, B.J.		
HARMAN, L.K.		
HEALY, T.J.		
HEDAH, T.		
HILBIG, J.G.		
HUTCHINS, N.M.		
KIRBY, W.A.		
KUESTER, A.W.		
MAHAFFEY, J.W.		
MANN, H.P.		
MARX, G.E.		
MCDONALD, M.M.		
McKENNA, F.G.		
MONTROSE, J.K.		
MORGAN, R.V.		
POTTER, G.L.		
PIZZUTO, V.M.		
RISING, T.L.		
SANDLIN, N.B.		
SETLOCK, G.H.		
STEWART, D.L.		
SULLIVAN, M.T.		
SWANSON, E.R.		
WILKINSON, R.B.		
WILLIAMS, S.(ORC)		
WILSON, J.M.		
WYANT, R.D.		
Anderson, G.M.	x	x
Roushey, W.J.	x	x
WILSON, T.H.	x	x
ERLICH, O.	x	x
CORRES. CONTROL	x	x
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ATTACHMENT 1
SUMMARY OF JANUARY 10, 1994 "QUARTERLY MEETING"
AMONG CDH, DOE, AND EPA

On Jan. 10, 1994 a quarterly meeting was held at the Interlocken facility of EG&G/Environmental Restoration Management (ERM) on the SiteWide Treatability Studies Program. Representatives from the Colorado Department of Health (CDH), the Department of Energy/Rocky Flats Office (DOE/RFO), the Environmental Protection Agency (EPA)-Region VIII, and EG&G were in attendance. The meeting commenced at approximately 2 p.m. and ended at approximately 4:15 p.m. An attendance roster is included at the end of this summary.

John Hopkins, EG&G/Remediation Technology (RT), made a short presentation as the newly appointed manager of RT. Mr. Hopkins proposed in the future that we take a programmatic approach so that Treatability Studies and Feasibility Studies (TS/FS) are more efficient, cost effective, and focused on remediation needs. He wants to expand on what has been done with the possibility that sitewide work might be terminated so that the focus could shift to OU specific studies. Mr. Hopkins stated that he plans to review potential remediation technologies within the next three weeks after obtaining input from sources within EG&G.

Arturo Duran, EPA, stated that he wanted to give RFP guidance on a Treatability Study Plan (TSP) date and to direct future efforts. Mr. Duran further stated that the regulators desired milestone and commitments to track progress on treatability studies as a way to measure success. He also maintained that new schedules may be requested with corresponding milestones and resource allocations. Dave Norbury, CDH, then advised DOE/EG&G that he wanted to see RFP commit to wrapping up some of the original thirteen technologies from the TSP.

Robin Madel, EE&T, reported on the status of the Plasma Melter Project and Bioremediation. Ms. Madel will issue a report to EPA and CDH on the Plasma Melter by Feb. 15. Ms. Madel reported further about plasma melter tests performed with cerium oxide as a surrogate for plutonium and, in another study, solvent extraction tests on soils from RFP

and the Idaho National Engineering Laboratory (INEL) using triethyl amine as the solvent. Ms. Madel committed to submit to EPA and CDH through RFO a literature review (previously done by L. Woods) on bioremediation by March 1, 1994. Robin stated that a work plan for bioremediation which focuses on chlorinated solvents degradation being prepared. Ms. Madel also reported on previous bioremediation work performed by the University of Colorado (CU) and the Colorado School of Mines (CSM) in association with the Los Alamos Technology Office (LATO). Laboratory work will commence in April, 1994.

Bill Roushey, EE&T, provided an update on the High Gradient Magnetic Separation (HGMS) study being performed at LANL. Mr. Roushey stated that Health & Safety representatives at LANL had requested that a NEPA determination be made because the work being performed for EG&G. The best available information at this time indicates a potential two to three week delay until this issue is resolved. The delay should not impact completion of the project within the current fiscal year (FY). Mr. Roushey also reported that the FY 93 Annual Report for Treatability Studies is on schedule. The second draft has been reviewed by both EG&G and RFO and returned to the subcontractor on schedule.

Initial contact has also been made with Dr. Jan Miller of the University of Utah during the week of Jan. 3. Dr. Miller has developed the Air Sparged Hydrocyclone (ASH), a device to separate colloidal sized particles from matrices. The device is essentially a fine particle froth flotation device with enhanced capabilities over those utilized in the minerals industry. EG&G has contacted Dr. Miller and will be pursuing setting up a contract to determine the applicability of ASH for removal of colloidal sized plutonium from contaminated soils.

Michael Harris, DOE, commented upon three soils treatability studies. Nuclear Remediation Technology (NRT) of San Diego had performed a brief study for RFP. NRT, however, has essentially gone bankrupt without issuing a useable report. However, one of the principal investigators now works in the Denver metropolitan area and efforts are currently underway to contract the production of an acceptable report. Mr. Harris also stated that the USGS

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Colloidal Plutonium Report was currently being reviewed by USGS headquarters personnel in Washington and it was unknown when the report would be released. Mr. Harris also reported that the AWC-Lockheed TRU-CLEAN soils treatability report was unacceptable to RFO for release until the report has been revised.

The temporary hiatus in evaluating four water treatment technologies: oxidation/ reduction, TRUClear, adsorption, and ion exchange was discussed. The reason for the delay is resolution of levels of contamination in groundwater and surface water. J.C. Laul is reviewing and analyzing data from RFEDS towards this end. Mr. Laul has commenced the review of data from 723 groundwater and 523 surface water locations. A lot of the radionuclide data has been non-detect except for plutonium in groundwater near the 903 pad area. Background values for metals like Al, Fe, Zn, and Mn exceed potential ARARs in some locations.

Steve Pettis, SWD, described the "Seasonal Variation in Plutonium Levels in Pond C-2" Project. Analytical data indicate a seasonal variation of plutonium values with exceedance of the 0.05 ;Ci/L water quality standard during the summers of 1992-93. Mr. Pettis proposes to evaluate reasons for this variation and potential for downstream contaminant transport and to establish a discharge procedure to prevent contaminant transport. The proposed study will be done under the Sitewide Treatability Program because it will investigate the mechanism(s) by which ponds and/or natural processes reduce the spread of waterborne contamination from RFP.

Jeff Swanson, CDH, made the comment that significant events, like the demise of NRT, need to be documented and communicated to the agencies. Mr. Swanson stated that in the Sept. 1993 meeting that O. Erlich, EE&T, was to provide a letter report to the agencies defining what projects were to be performed in FY94. This letter has yet to be received by the regulators. Significant accomplishments over the previous 6 months were to be included. An introduction to the FY94 studies is to be included in the FY93 Annual Report.

With regard to future reporting over and above the regularly scheduled quarterly meetings, CDH and EPA will draft a letter to DOE defining the content of the additional reporting format. Also, the two agencies would like more commitment in the TSP program and in the annual report. A possible additional meeting in the next two to three weeks was mentioned contingent upon the scope of the new reporting requirement.

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